

FIG.1

The block diagram illustrates the system architecture with the following components and their interconnections:

- Barcode Scan Input Device (11)**: Connected to the **A/D with sensor Timing Generator (32)** and the **Micro Processor (31)**.
- A/D with sensor Timing Generator (32)**: Connected to the **Micro Processor (31)** and the **Infra transmitter (option) (42)**.
- Infra transmitter (option) (42)**: Connected to the **LCD Display (23)**.
- LCD Display (23)**: Connected to the **Micro Processor (31)** and the **LED (13)**.
- LED (13)**: Connected to the **Micro Processor (31)**.
- Buzzer**: Connected to the **Micro Processor (31)**.
- Micro Processor (31)**: The central processing unit, connected to the **Switch Circuit For Output (30)**, **Switch (25)**, **DC/DC Circuit (26)**, **USB output Interface (22)**, **Mobile Phone Output Interface (21)**, **3x4 Key pad (24)**, **I2C Memory (32)**, and the **Track Ball Device (option) (41)**.
- Switch Circuit For Output (30)**: Connected to the **Micro Processor (31)** and the **Switch (25)**.
- Switch (25)**: Connected to the **Switch Circuit For Output (30)** and the **DC/DC Circuit (26)**.
- DC/DC Circuit (26)**: Connected to the **Switch (25)** and the **3V Battery**.
- 3V Battery**: The power source for the system.
- USB output Interface (22)**: Connected to the **Micro Processor (31)**.
- Mobile Phone Output Interface (21)**: Connected to the **Micro Processor (31)**.
- 3x4 Key pad (24)**: Connected to the **Micro Processor (31)**.
- I2C Memory (32)**: Connected to the **Micro Processor (31)**.
- Track Ball Device (option) (41)**: Connected to the **Micro Processor (31)**.

|| || || ||

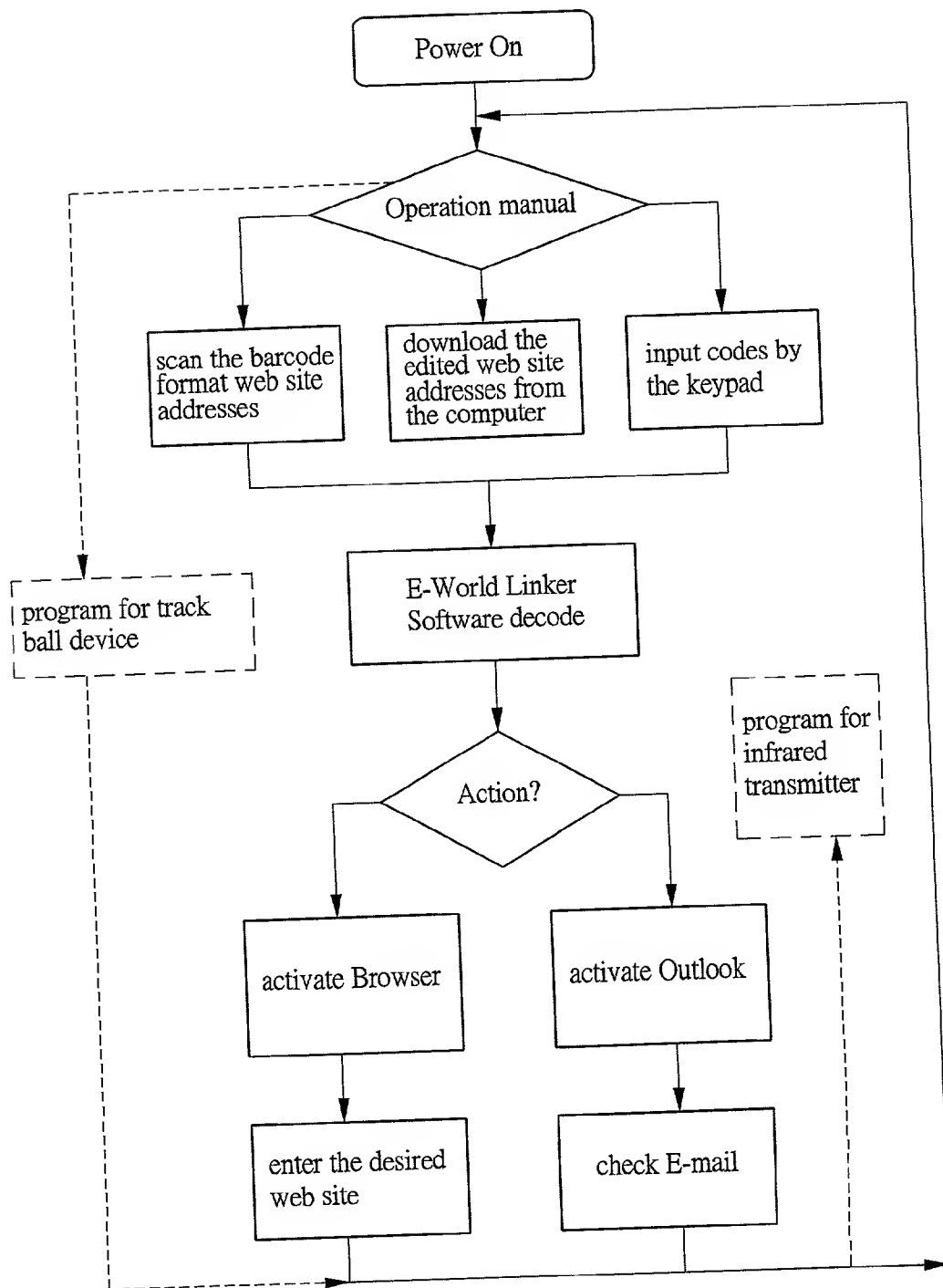


FIG.3